RC-1001

USER'S MANUAL

Web Smart 10/100Base-TX to 100Base-FX Media Converter



User's Manual

Web Smart 10/100Base-TX to 100Base-FX
Media Converter

Release 1.04

Publication date: March, 2011
Revision A2

Table of Contents

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Revision History

Release	Date	Revision
0.96	12/04/2009	A1
1.01	10/7/2010	A1
1.02	10/29/2010	A1
1.04	03/03/2011	A2

Caution

Circuit devices are sensitive to static electricity, which can damage their delicate electronics. Dry weather conditions or walking across a carpeted floor may cause you to acquire a static electrical charge.

To protect your device, always:

- Touch the metal chassis of your computer to ground the static electrical charge before you pick up the circuit device.
- Pick up the device by holding it on the left and right edges only.

Electronic Emission Notices

Federal Communications Commission (FCC) Statement

This equipment has been tested and found to comply with the FCC Part 15, Subpart B, Class A.
CISPR 22:A1:2000+A2:2002;ICES-003:2004, Class A

European Community (CE) Electromagnetic Compatibility Directive

This equipment has been tested and found to comply with the protection requirements of European Emission Standard EN55022 and EN55024.

EMI	EN55022:2006 Class A
	EN61000-3-2:2006
	EN61000-3-3:1995+A1:2001+A2/2005+A1/2001+A2/2005
EMS	EN55024/1998+A1:2001+A2:2003
	→IEC61000-4-2:2001
	→IEC61000-4-3:2002+A1:2002
	→IEC61000-4-4:1995+A1:2000+A2:2001
	→IEC61000-4-5:2001
	→IEC61000-4-6:2003
	→IEC61000-4-8:2001
	→IEC61000-4-11:2001

About this user’s manual

In this user’s manual, it will not only tell you how to install and connect your network system but configure and monitor the Web Smart MEDIA CONVERTER through the built-in web by Ethernet ports step-by-step. Many explanations in detail of hardware and software functions are shown as well as the examples of the operation for web-based interface.

Overview of this user’s manual

- Chapter 1 “Introduction” describes the features of Web Smart MEDIA CONVERTER
- Chapter 2 “Installation”
- Chapter 3 “Operation of Web-based Management”
- Chapter 4 “Maintenance”
- Appendix A

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1. Introduction

1-1. Overview

The Converter is designed to make conversion between 10/100Base-TX and 100Base-FX Fast Ethernet. With Web-based management, the network administrator can logon the converter to monitor, configure and control the activity of each port. In addition, the converter implements bandwidth rating management capability via the intelligent software. The overall network management is enhanced, and the network efficiency is also improved to accommodate and deliver high bandwidth applications.

1-2. Features

The Web Smart MEDIA CONVERTER provides the following features for users to perform system network administration.

Management

- Supports Web UI for management
- Supports OAM for remote management via TS-1000
- Supports OAM for remote management via IEEE802.3ah
- Supports Ingress/Egress Rate Limitation
- Supports Link Loss Carry Forward Function
- Supports per Port MIB Counters
- Supports IEEE802.1Q VLAN
- Supports Q-in-Q (Double-Tag) VLAN
- Supports one 10/100Base-TX Fast Ethernet UTP port and one 100Base-FX FE Fiber port
- Supports 802.3x flow control for full-duplex ports and backpressure for half-duplex ports
- Supports comprehensive types of fiber with different distances and connections, including SC/Bidi/LC and so on
- Supports auto mode on the TP port
- Supports jumbo frame 9KB
- RoHS Compliance
- On-board firmware can be updated via HTTP web function.
- The converter allows administrator to reboot system from management station.
- Dying Gasp function can send out a signal when DC power down is detected.

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1-3. Checklist

Before you start installing the converter, please verify that the package contains the following:

— Web Smart Media Converter
— AC-DC Power adapter
— This User's Manual(CD)

Please notify your sales representative immediately if any of the aforementioned items is missing or damaged.

Model

Model	Description
RC-1001	Web Smart 10/100Base-T to 100Base-FX Media Converter
RC-1001A	Web Smart 10/100Base-T to SFP Media Converter

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1-4. View of the Converter



RC-1001

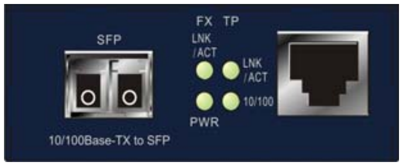


RC-1001A

Fig. 1-1 WEB SMART MEDIA CONVERTER



RC-1001



RC-1001A

Fig. 1-2 Front View of the WEB SMART MEDIA CONVERTER

LED Indicators Description

LED	Color	Function
POWER	Green	Lit when +5V power is coming up
FX LINK/ACT	Green	Lit when fiber connection is good Blinks when any traffic is present
TP LINK/ACT	Green	Lit when TP connection is good Blinks when any traffic is present
TP 10/100	Amber	Lit when 100Base-TX is active Off when 10Base-T is active

Table 1-1



Fig. 1-3 Rear View of the WEB SMART MEDIA CONVERTER

Reset button:

Press this button over 5 seconds then

(1) Restore to default

(2) Reboot

2. Installation

2-1. Cable and Hardware Installation

⇒ Wear a grounding device for electrostatic discharge

⇒ Verify that the AC-DC adapter conforms to your country AC power requirement and then insert the power plug

- **TP Cable**

⇒ Use Cat. 5 TP cable to connect server/host or workstation to TP port of the converter

⇒ TP port supports MDI/MDI-X auto-crossover, use:
straight-through cable (Cable pin-outs for RJ-45 jack 1, 2, 3, 6 to 1, 2, 3, 6) to cascade or up-link the converter to an upper layer L2/L3 switch or server/host/workstation

⇒ TP Cable Limitations: Cat. 5 and up to 100m

- **Fiber Cable**

⇒ Use fiber cable to connect FX port of an upper layer converter

⇒ Fiber Cable Limitations:

SC/LC Converter Models	
Multi-mode Half-duplex	412m
Multi-mode Full-duplex	2Km
Single-mode Half-duplex	412m
Single-mode Full-duplex	10/30/50Km

Table 2-1

Note: The other side of the fiber cable plugged into the converter's RX connector at the near end should plug into the FX device's TX connector at the far end, and vice versa.

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3. Operation of Web-based Management

The converter provides a web function by Ethernet Port (Browser) to manage and monitor the port activity. For instance, http://192.168.1.1, then enter password and click “Login” button.

The default values of Web Smart Media Converter are as follows:

IP Address	:192.168.1.1
Subnet Mask	:255.255.255.0
Default Gateway	:192.168.1.254
Password	:admin

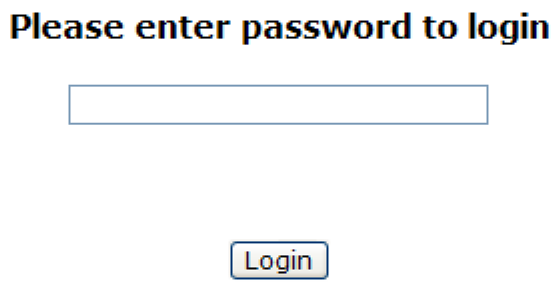


Fig. 3-1

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3-1. Web Management Home Overview

Home Page and Main MENU will be shown up after you fill in “admin” to serve as password and click the **<Login>** button. The main functions will be listed on the left side of a browser. On the top is the front panel view of the converter. In the middle is the basic System Information. The main functions will be introduced in the following sections.

On the front panel, the LEDs will display the status color which is the same as physical hardware. The fiber and TP plug will display the status color as well. Green stands for “Link up” status.

The main functions are “Information”, “Local Setting”, “Remote Setting”, and “Tools”.

Function name:

System Information

Function description:

Show the local and remote device network information.



Fig. 3-2

Parameter description:

Remote Device Control:

Disable (Default):

When Remote Device Control is disabled, the remote device information will not be shown on the screen.

Enable:

When Remote Device Control is enabled, the remote device information will be shown on the screen.

MAC address:

It is the Ethernet MAC address of the management agent in this device.

Software Version:

It's a firmware version of this device.

IP address/Gateway/Subnet Mask:

It's an IP address of the device.

Default Setting:

IP Address: 192.168.1.1
Default Gateway: 192.168.1.254
Subnet Mask: 255.255.255.0

Description:

It is a field for model description.

Serial number:

It is a product serial number.

Hardware Version:

It is a hardware version of product.

3-2. The Function Tree in Web Management

For offering you a clear guide to use this Web Smart Media Converter, the following is the whole function tree of Web Smart Media Converter in web management. User can refer to the following sections based on the order of this function tree below for more details.

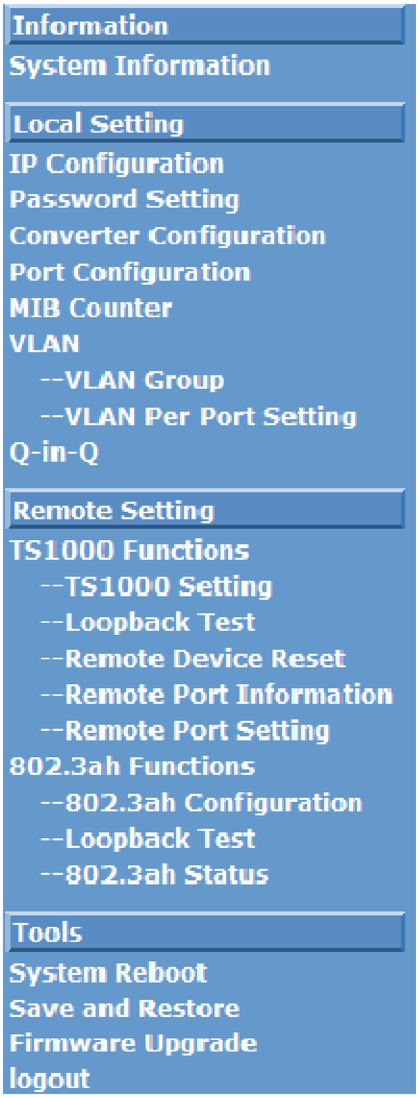


Fig. 3-3

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3-3. Local Setting

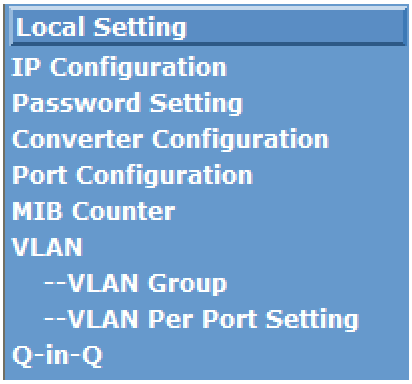


Fig. 3-4

3-3-1. IP Configuration

IP configuration is one of the most important configurations in WEB SMART MEDIA CONVERTER. Without the proper setting, network manager will not be able to view the device. WEB SMART MEDIA CONVERTER supports both manual IP address setting and automatic IP address setting via DHCP server. When IP address is changed, you must reboot the converter to have the setting taken effect and use the new IP to browse for web management.

Function name:

IP Configuration

Function description:

Set IP address, subnet mask and default gateway for WEB SMART MEDIA CONVERTER.

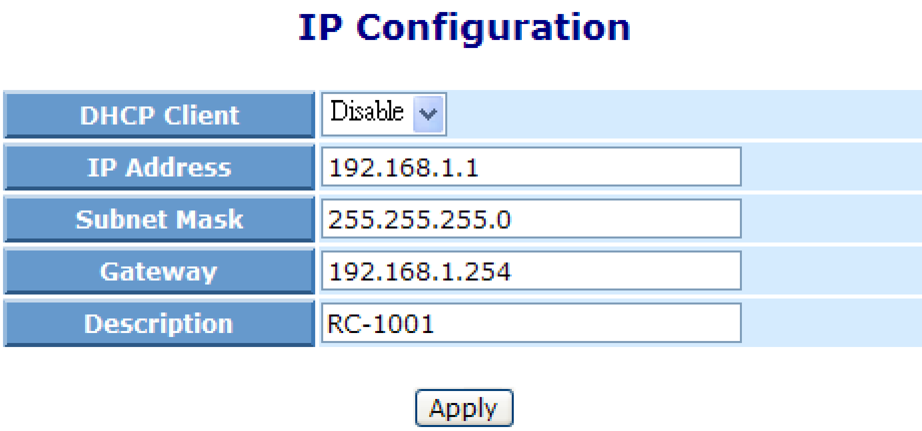


Fig. 3-5 IP Configuration

Parameter description:

DHCP Client:

WEB SMART MEDIA CONVERTER supports DHCP client used to get an IP address automatically if you set this function “Enable”. WEB SMART MEDIA CONVERTER will find the DHCP server existed in the network to get an IP address. If this function is set “Disable”, you have to input IP address manually.

Default: Disable

IP address:

Users can configure the IP settings and fill in new values if users set the DHCP function “Disable”. Then, click **<Apply>** button to update it.

Default: 192.168.1.1

Subnet mask:

Set the subnet mask value which is the same as that of network it attaches. For more information, please also see the section “IP Address Assignment” in this manual.

Default: 255.255.255.0

Default gateway:

Set an IP address for a gateway to handle those packets that do not meet the rules predefined in a device. If a packet does not meet the criteria for other routers, then it must be sent to a default router. This means any packet with undefined TCP/IP information will be sent to this device unconditionally.

Default: 192.168.1.254

Description:

Input data or model name about this device then click **<Apply>** button.

3-3-2. Password Setting

Function name:

Password Setting

Function description:

The default user account is “admin” that can not be modified or deleted and is the only one user account. The password must be ‘a’-‘z’, ‘A’-‘Z’, ‘0’-‘9’ and ‘_’. The max. length is 16 characters. After input the data as Fig. 3-6 click **<Apply>** button.

The default setting of user account is:

Username: admin

Password: admin

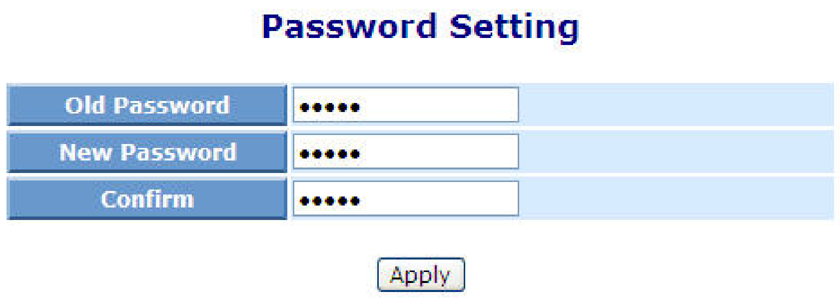


Fig. 3-6

Parameter description:

Old Password:

Input the old password

New Password:

Input new password

Confirm:

Input the new password again

3-3-3. Converter Configuration

Function name:

Converter Configuration

Function description:

This converter provides the following configurable parameters.

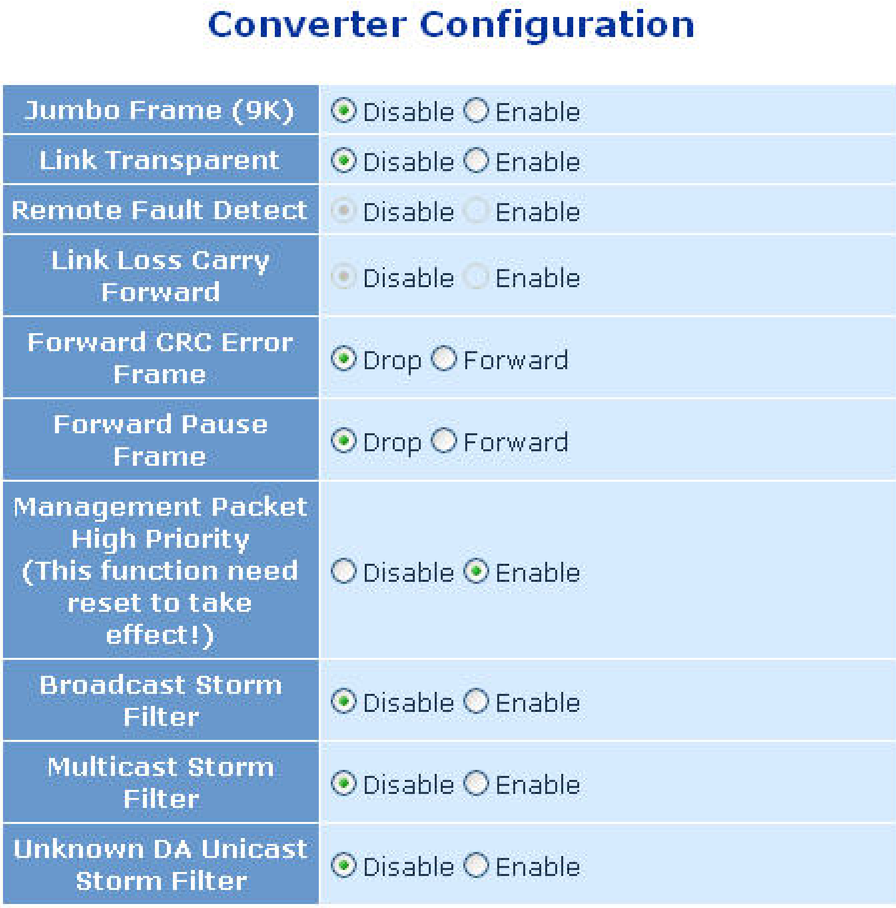


Fig. 3-7 Converter Configuration

Parameter description:

Jumbo Frame(9K):

If enable this function, the media converter could pass the max. 9KB packets.

Link Transparent:

Only if link transparent is enabled, the Remote Fault Detect and Link Loss Carry Forward will take effect.

Remote Fault Detect:

If enable this function, when fiber port enable TS-1000 and receive OAM packet. This converter will set local UTP port link up or link down

according to remote device’s UTP port link status. This function need enable link transparent first.

Link Loss Carry Forward:

If enable this function, when the UTP port link down, the fiber port will be forced link down. And the fiber will be resume when UTP port link up. This function need enable link transparent first.

Notice：

If local MC (Media Converter) enables TS1000 and is configured as Center Mode, when configuring Jumbo Frame and Link Transparent functions for local MC, the remote MC will be configured at the same time even if it is a dump MC. And the configuration of remote side is the same as local side.

Forward CRC Error Frame:

If enable this function, the CRC error packet will be pass, otherwise, the CRC error packets will be dropped.

Forward Pause Frame:

If this function was enabled, this MC will forward pause frame and regard it as a normal packet.

Management Packet High Priority:

If enable this function, this MC will enable QOS. We enable four queues, and set queue 3 as strict priority. All management packets, such as 802.3ah OAM packets will be in queue 3 to guarantee bandwidth.

Broadcast Storm Filter, Multicast Storm Filter, Unknown DA Unicast Storm Filter:

If enable this function, when too many broadcast/multicast/unknown DA unicast packets arrive in a period time, the packets will be dropped.

3-3-4. Port Configuration

Function name:

Port Configuration

Function description:

Change the state and configuration of each port. This page could set local device’s port status, include work mode, flow control ability, ingress and egress rate limit.

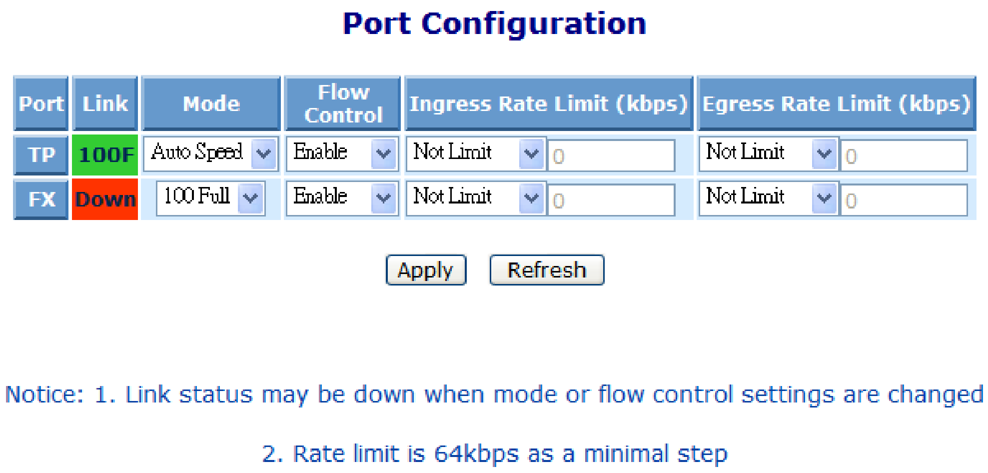


Fig. 3-8 Port Configuration

Parameter description:

Port:

The TP Port is MEDIA CONVERTER’s Ethernet UTP interface.

The FX Port is MEDIA CONVERTER’s Ethernet Fiber interface.

Link:

Show port current link status:

100F = Speed 100M, Full Duplex Mode

100H = Speed 100M, Half Duplex Mode

10F = Speed 10M, Full Duplex Mode

10H = Speed 10M, Half Duplex Mode

Down = Link Down

Mode:

The Auto Speed algorithm to exchange the capability with the linked partner. When enabled, the speed, duplex mode and flow control mode may change. You must have both port configuration of local port and linked partner be the same. If their configuration is different, the link will not be set up successfully. In WEB SMART MEDIA CONVERTER, fiber port supports forced mode only.

Set the mode of speed and duplex. In speed, 10/100Mbps baud rate is

available for Fast Ethernet. If the media is fiber, it is always 100Mbps and the duplex is 100full/auto; if the media is TP, the Speed/Duplex is comprised of the combination of speed mode, 10/100Mbps, and duplex mode, full duplex and half duplex.

Flow Control:

There are two modes to choose in flow control, Enable and Disable. If flow control is set “Enable”, both parties can send PAUSE frame to the transmitting device(s) while the receiving port is too busy to handle. When it is set “Disable”, flow control will not exist in the port. It drops the packet if too much to handle.

Default: Enable

Ingress Rate Limit and Egress Rate Limit:

There are some predefined rate settings. If user needs some special usage, you could input the rate by yourself after “User Setting” has been selected from pull down list. Because the rate limit is 64kbps as a minimal step, the input rate limit, it should be divided exactly by 64. If the rate value can not be divided exactly by 64, for example 65, the program will be change the rate to 64 automatically.

Default: Not Limit

3-3-5. MIB Counter

Function name:

MIB Counter

Function description:

The page shows local device's MIB counters. If click the "clear" button, all MIB counters will be clear to zero. Click the "refresh" button, show the current MIB counters again.

MIB Counters

(The following counter means the port received number)

Port	TP	FX	CPU
Total Bytes	1479700	1151723	957090
Total Pkts	14956	10516	7992
Total Error Pkts	0	0	0
Unicast Pkts	13529	7154	4645
Multicast Pkts	2	3340	3341
Broadcast Pkts	1425	22	6
64	5802	5514	5180
65-127	7828	4274	2153
128-255	4	8	7
256-511	1200	3	4
512-1023	122	646	545
1024-1518	0	71	103
Undersize Pkts	0	0	0
Oversize Pkts	0	0	0
Fragments	0	0	0
CRC Errors	0	0	0
Jabbers	0	0	0
Drop Events	0	0	0
Pause Frames	0	0	0

Clear Refresh

Fig. 3-9

Parameter description:

TP:

To display the converter UTP port counter information.

FX:

To display the FX (The converter's Fiber port) port counter information.

CPU:

To display the CPU (The converter's CPU) counter information.

3-3-6. VLAN

The Converter supports Tag-based VLAN (802.1Q). VLAN configuration is used to partition your LAN into small ones as your demand. Properly configuring it, you can gain not only improving security and increasing performance but greatly reducing VLAN management.

3-3-6-1. VLAN Group

Function name:

802.1Q VLAN Group

Function description:

If enable VLAN functions, user could set 16 VLAN entries. Each VLAN entry could set VID and member port. The VID should be 1~4094.Others when the member port is evoked, this port will belongs to this VLAN group.

802.1Q VLAN Group

VLAN Mode: Enable

VLAN Group	VID	Member		
		TP	FX	CPU
0	1	☑	☑	☑
1	2	☐	☐	☐
2	4094	☑	☑	☐
3	4	☑	☐	☐
4	5	☐	☑	☐
5	6	☐	☑	☐
6	7	☐	☑	☐
7	8	☑	☐	☐
8	9	☐	☐	☐
9	10	☐	☐	☐
10	11	☐	☐	☐
11	12	☐	☐	☐
12	13	☐	☐	☐
13	14	☐	☐	☐
14	15	☐	☐	☐
15	16	☐	☐	☐

Apply

Warning: Web connection will lost if CPU port is not VLAN member

Fig. 3-10

Parameter description:

VLAN Group:

To display the VLAN Group Index. The maximum is 16 and the range is from 0 to 15.

VID:

VLAN identifier. Each tag-based VLAN group has a unique VID. It appears only in tag-based and Double-tag mode.

TP:

To evoke the TP (The converter's UTP port) to become a VLAN group member.

FX:

To evoke the FX (The converter's Fiber port) to become a VLAN group member.

CPU:

To evoke the CPU (The converter's CPU) to become a VLAN group member. It means that CPU needs to become a VLAN member for management purpose.

3-3-6-2. VLAN Per Port Setting

Function name:

802.1Q VLAN Per Port Setting

Function description:

In this page, we could set each port's PVID and egress tag behavior.

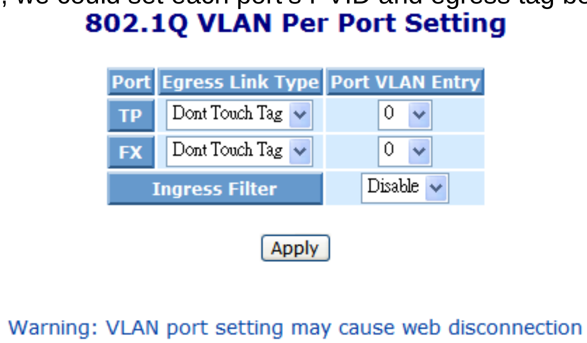


Fig. 3-11

Parameter description:

Egress Link Type:

Replace Tag:

The switch will remove VLAN tags from packets then add new tags to them. The inserted tag is the ingress port's "Default tag", which is indexed by port "Port based VLAN index". This is a replacement processing for tagged packets and an insertion for untagged packets.

Remove Tag:

The switch will remove VLAN tags from packets, if they are tagged when these packets are output. The switch will not modify packets received without tags.

AddTag:

The switch will add VLAN tags to packets, if they are not tagged when these packets are output on this port. The switch will not add tags to packets already tagged. The inserted tag is the ingress port's Default tag, which is indexed by port's "Port based VLAN index".

Don't Touch Tag:

Do not insert or remove VLAN tags to/from packet which is output on this port.

Port VLAN Entry:

Select Port based VLAN index. The number means VLAN table entry index, not VID.

Ingress Filter:

Enable or Disable VLAN ingress filter.

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3-3-7. Q-in-Q

Function name:

Q-in-Q

Function description:

This page could configure Q in Q function.

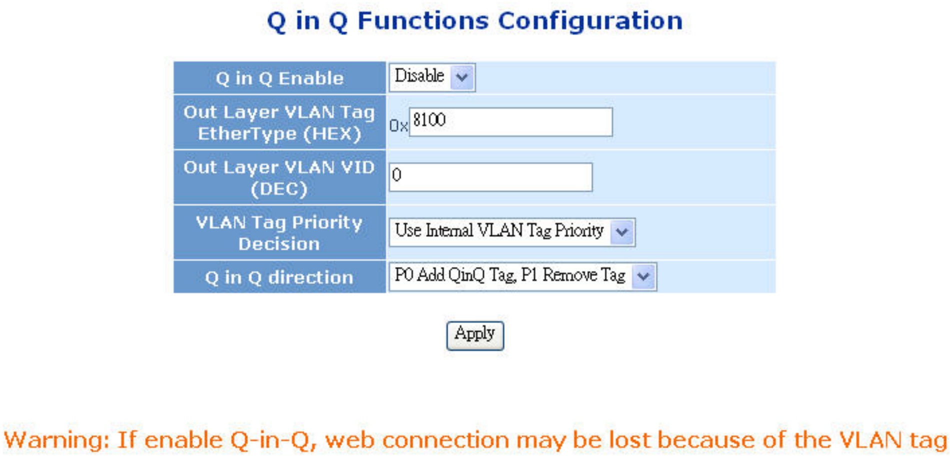
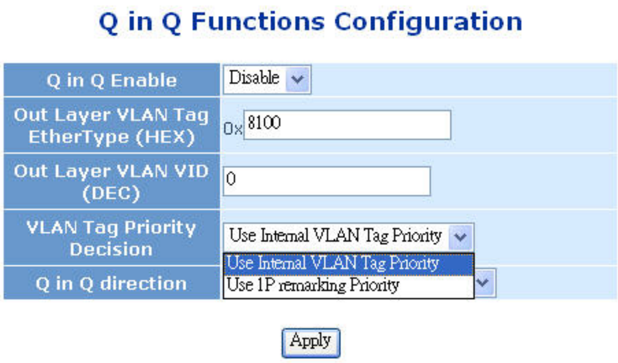


Fig. 3-12



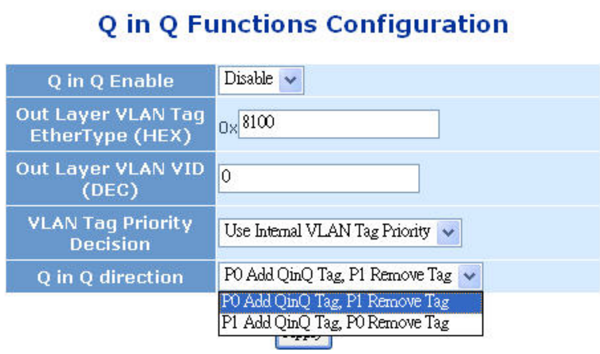


Fig. 3-13

Parameter description:

Out Layer VLAN Tag:

User defined Q-in-Q out layer VLAN tag Ether type.

Out Layer VLAN VID:

User defined Q-in-Q out layer VLAN tag VID

VLAN Tag Priority Decision:

Decide out layer VLAN Tag's priority, use internal VLAN tag priority or use IP remarking priority.

Q in Q direction:

Select Q in Q direction, which port adds tag, and which port removes tag. "TP Port Add Q in Q Tag FX Port Remove Tag" or "FX Port Add Q in Q Tag TP Port Remove Tag".

3-4. Remote Setting

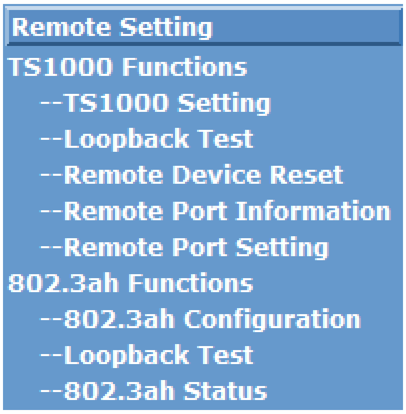


Fig. 3-14

3-4-1. TS-1000 Functions

TS-1000 Functions include “TS1000 Setting”, “Loopback Test”, “Remote Device Reset”, “Remote Port Information”, “Remote Port Setting” five functions.

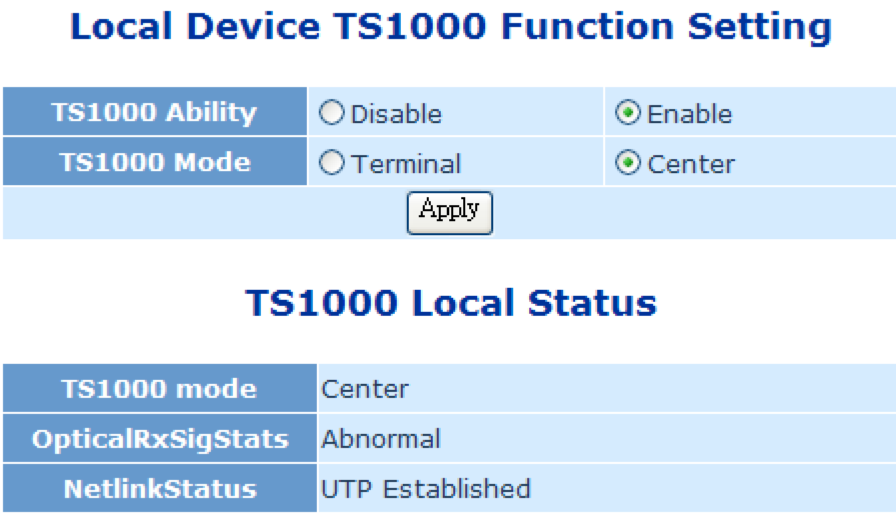
3-4-1-1. TS-1000 Setting

Function name:

TS-1000 Setting

Function description:

This page could enable/disable TS1000 function, and set TS-1000 mode as terminal or center. If TS1000 is enabled, the TS1000 information will be displayed in the web. And if it’s in center mode, and remote device is in terminal mode, remote TS1000 information will also be shown in the page.



Local Device TS1000 Function Setting

TS1000 Ability	○ Disable	◉ Enable
TS1000 Mode	◉ Terminal	○ Center
	Apply	

TS1000 Local Status

TS1000 mode	Terminal
Power status	Normal
OpticalRxSigStats	Abnormal
NetlinkStatus	UTP Established
LossOpNotifWay	with alarm FEFI
Operation status	under ordinary operation
MCOptionB	Support
Terminal Link Rate	100M
Terminal Link Duplex	Full
Terminal Link Nway	Enable
NumPhyInterface	One

Fig. 3-15

3-4-1-2. Loopback Test

Function name:

Loopback Test

Function description:

This page could start TS1000 loopback function. User could set TS1000 loopback packet number.

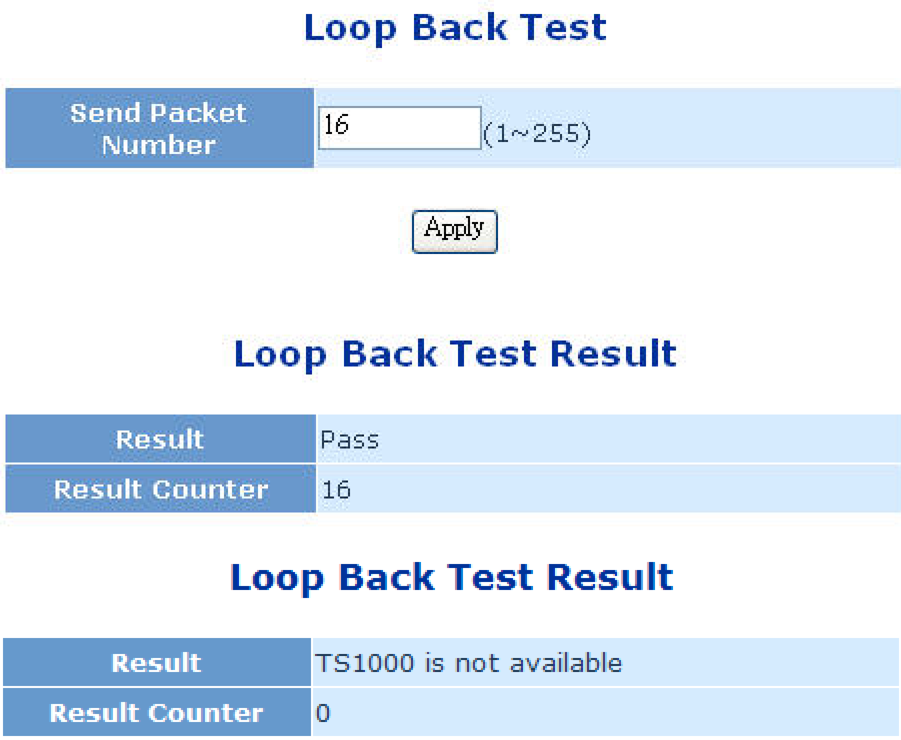


Fig. 3-16

Parameter description:

Send packet number:

After input the number between 1 and 255, click the “**<Apply>**” button.

Result:

Pass or not as Fig. 3-16

Result Counter:

Show packet number and pass or not

3-4-1-3. Remote Device Reset

Function name:

Remote Device Reset

Function description:

We could reset remote device through this function. Before that "TS1000 ability" should be enabled, local device should be set in center mode and remote device should be set in terminal mode.



Fig. 3-17

Parameter description:

Reset button:

After click this button, if success shown as Fig. 3-17.

3-4-1-4. Remote Port Information

Function name:

Remote Port Information

Function description:

This page shows remote device port information.

Remote Port Information

Port Number	Port 0	Port 1
Media Type	TP	FX
Link Status	On	On
Speed	100Mbps	100Mbps
Duplex Mode	Full	Full
Flow Control	On	Off

Refresh

Notice : The speed of fiber port is always 100Mbps.

Fig. 3-18

3-4-1-5. Remote Port Setting

Function name:

Remote Port Setting

Function description:

In this page, user could enable/disable remote device's UTP port, change remote device port's speed & duplex and flow control ability. Fiber port should not be disabled.

Remote Port Setting

Port Name	Enable	Speed & Duplex	Flow Control
TP	Enable	Auto Speed	Enable
FX	Enabled	100M Full	Disabled

Apply Refresh

Fig. 3-19

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3-4-2. 802.3ah Function

This menu includes “802.3ah Configuration”, “Loopback Test”, “802.3ah Status” three functions.

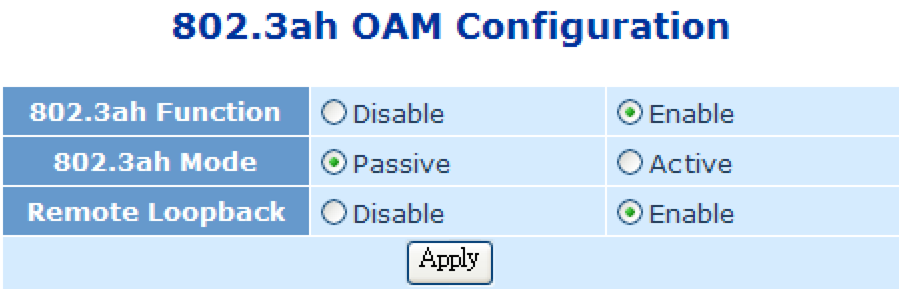
3-4-2-1. 802.3ah Configuration

Function name:

802.3ah Configuration

Function description:

This page could set IEEE802.3ah OAM function. User could enable/disable 802.3ah function and set its mode as passive or active mode.



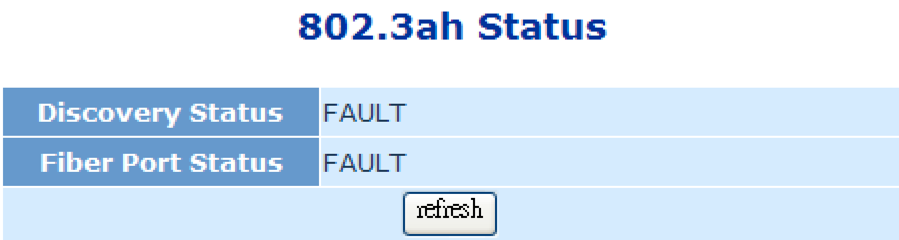


Fig. 3-20

Parameter description:

802.3ah Function:

Enable/Disable

802.3ah Mode:

Active/Passive

Remote Loopback:

Enable/Disable

After select the parameters, then click the **<Apply>** button and **<refresh>** button to show “Discovery Status” and “Fiber Port Status”.

3-4-2-2. Loopback Test

Function name:

Loopback Test

Function description:

This page could start 802.3ah loopback test. User could configure packet length and packet number.

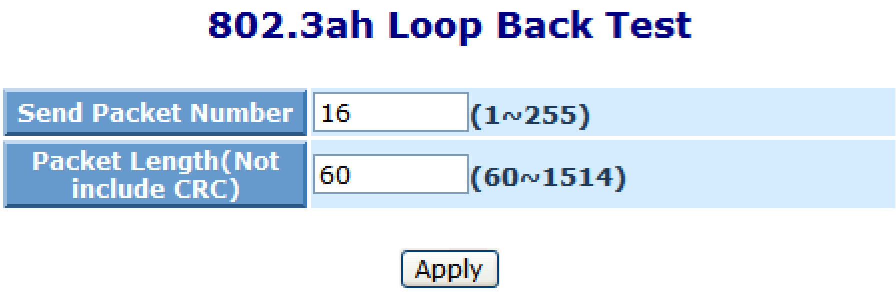


Fig. 3-21

Parameter description:

Send Packet Number:

Available value:1~255

Packet Length (Not include CRC):

Available value:60~1514

After input the parameters, then click the **<Apply>** button.
Test result(Fig. 3-22, Fig. 3-23)

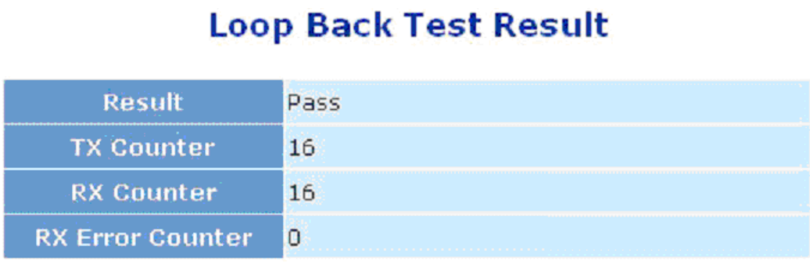


Fig. 3-22

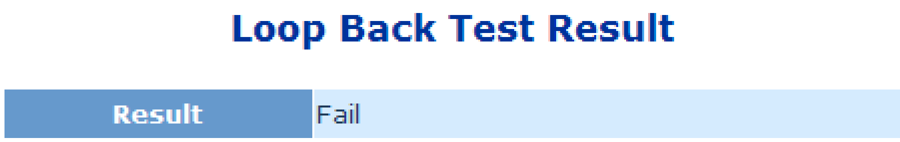


Fig. 3-23

3-4-2-3. 802.3ah Status

Function name:

802.3ah Status

Function description:

This page shows 802.3ah status information.

802.3ah Status Information

Global Config

Function Enable	ENABLED
Local DTE MAC	00-40-C7-27-00-01
Remote DTE MAC	00-40-C7-27-00-00

Flags Field

	Local	Remote
Remote Stable	TRUE	TRUE
Remote Evaluating	FLASE	FLASE
Local Stable	TRUE	TRUE
Local Evaluating	FLASE	FLASE
Critical Event	FLASE	FLASE
Dying Gasp	FLASE	FLASE
Link Fault	FLASE	FLASE

Discovery Information

Discovery State	SEND_ANY
Local PDU	ANY
Local Satisfied	TRUE
Remote State Valid	TRUE
Local Lost Link Timer Done	FALSE
Local Link Status	TRUE

Information TLV

	Local	Remote
State Mux	FWD	FWD
State Par	FWD	FWD
Revision	0x0	0x2
Variable	FLASE	FLASE
Link Events	TRUE	TRUE
Loopback	TRUE	TRUE
Unidir	FLASE	FLASE
Mode	ACTIVE	PASSIVE

Remote Dying Gasp

Remote Dying Gasp Count:	0

Fig. 3-24

3-5. Tools

This menu contains “System Reboot”, “Save and Restore”, “Firmware Upgrade” and “Logout” four functions.



Fig. 3-25

3-5-1. System Reboot

Function name:

System Reboot

Function description:

Click this function to reboot the device.



Fig. 3-26

Parameter description:

OK:

To restart the device.

Cancel:

To exit the function.

3-5-2. Save and Restore

Function name:

Save and Restore

Function description:

SaveToFlash: Save local configuration to flash.
LoadFromFlash: Restore last saved configuration.
ResetToFactory: Factory default setting.

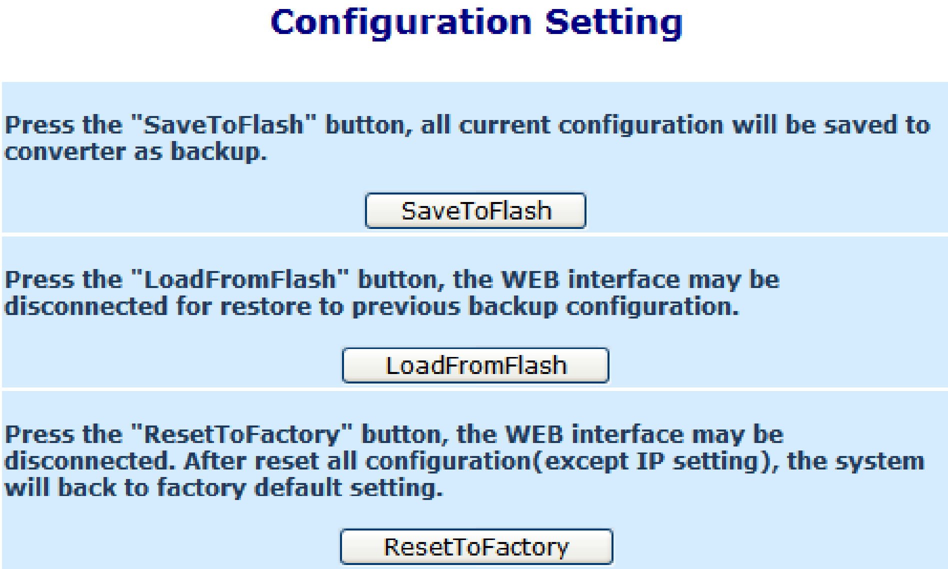


Fig. 3-27

3-5-3. Firmware Upgrade

Function name:

Firmware Upgrade

Function description:

In this page, user could update the firmware by the web browser. User could click the browser button, select the new firmware image file, and then the new code image will be burned into the flash, and reset the device to use the new firmware.



Fig. 3-28

Parameter description:

Browse:

To select the location of the firmware file.

Upgrade:

To execute "firmware upgrade" function.

3-5-4. Logout

Function description:

Logout

Function description:

Exit Web management.



Fig. 3-29

Parameter description:

OK:

To exit Web management.

Cancel:

To cancel logout action.

4. Maintenance

4-1. Resolving No Link Conditions

The possible causes for a no link LED status are as follows:

- The attached device is not powered on
- The cable may not be the correct type or is faulty
- The installed building premise cable is faulty
- The port may be faulty

4-2. Q&A

1. Computer A can connect to Computer B, but cannot connect to Computer C through the WEB SMART MEDIA CONVERTER Converter.
    - ✓ The network device of Computer C may fail to work. Please check the link/act status of Computer C on the LED indicator. Try another network device on this connection.
    - ✓ The network configuration of Computer C may be something wrong. Please verify the network configuration on Computer C.

2. The uplink connection function fails to work.
    - ✓ The connection ports on another must be connection ports. Please check if connection ports are used on that converter.
    - ✓ Please check the uplink setup of the WEB SMART MEDIA CONVERTER to verify the uplink function is enabled.

Appendix A
Technical Specifications

Hardware Specification

Feature	Detailed Description
Power requirement	5VDC
Power consumption	1.5 W
Fiber Connector	RC-1001:SC, LC / RC-1001A:SFP
Ambient Temperature	0° to 50°C
Humidity	5% to 90%
Dimensions	70.3(W) x 26.2(H) x 94(D) mm
Weight	0.44kg
Safety	Comply with FCC Part 15 Class A & CE Mark Approval
Shock	IEC60068-2-27
Freefall	IEC60068-2-32
Vibration	IEC60068-2-6

Note: Any specification is subject to change without notice.

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